

GILA RIVER BASIN

09478600 QUEEN CREEK TRIBUTARY NO. 3 AT WHITLOW DAM, AZ

LOCATION.--Lat 33°17'30", long 111°16'50", N¹/₂ sec.1, T.2 S., R.10 E., Pinal County, Hydrologic Unit 15050100, 0.5 mi south of Whitlow Dam, and 4.5 mi northeast of Florence Junction.

DRAINAGE AREA.--0.37 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1966	09-13-66	280		1973	10-19-72	80	
1967	08-00-67	110		1974	00-00-74	0	
1968	08-00-68	95		1975	09-05-75	35	
1969	09-16-69	85		1976	04-16-76	4.0	
1970	08-09-70	64		1977	10-23-76	115	
1971	08-00-71	63		1978	03-02-78	240	
1972	08-00-72	44		1979	12-18-78	5.0	ES

Magnitude and probability of instantaneous peak flow based on period of record 1966-79

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2†	5†	10†	25†	50†	100†
50%	20%	10%	4%	2%	1%
71.3	135	189	270	339	417
Weighted skew	(logs) =	-0.00			
Mean	(logs) =	1.85			
Standard dev.	(logs) =	0.33			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
187	1.1	2,320	0.0	1.0	12.0	1.8	3.9

